

CLAIM AMENDMENTS

Claims 1-3. (cancelled).

Claim 4. (currently amended) ~~A~~The tunable antenna matching circuit of claim 1,

~~further~~ comprising:

a ferro-electric tunable component configured to be coupled to
an antenna;

a matching circuit comprising the ferro-electric tunable
component;

a control line operably coupled to the ferro-electric component;

a control source electrically coupled to the control line, the
control source configured to transmit a control signal on the control
line;

wherein the ferro-electric component, responsive to the
control signal, adjusts the impedance of the matching circuit;

a first inductor coupled, at a first end of the first inductor, to
ground and configured to be coupled to an antenna at a second end of
the first inductor;

a second inductor coupled, at a first end of the second inductor,
to the second end of the first inductor;

a first capacitor coupled, at a first end of the first capacitor, to a second end of the second inductor and to ground at a second end of the first capacitor; and

a second capacitor coupled to the second end of the second inductor.

Claims 5-7. (cancelled).

Claim 8. (currently amended) A~~The~~ wireless communication device ~~of claim 5,~~

~~further~~ comprising:

a battery;

a transceiver;

a user interface;

a housing encasing the battery and the transceiver and adapted to present the user interface external to the housing;

an antenna matching circuit, configured to be coupled to an antenna and comprising a ferro-electric tunable component;

a control signal generator for generating a control signal;

a control line coupled to the control signal generator and to the ferro-electric component;

a control source electrically coupled to the control line, the control source configured to transmit a control signal on the control line;

wherein the ferro-electric component, responsive to the control signal, adjusts the impedance of the matching circuit;

a first inductor coupled, at a first end of the first inductor, to ground and configured to be coupled to an antenna at a second end of the first inductor;

a second inductor coupled, at a first end of the second inductor, to the second end of the first inductor;

a first capacitor coupled, at a first end of the first capacitor, to a second end of the second inductor and to ground at a second end of the first capacitor; and

a second capacitor coupled to the second end of the second inductor.